ADAMTS-E nucleotide sequence [SEQ ID NO: 1]

CACGCGTCCGACGCGCGGGGGCCCCGGGCGCGCGCGGGGGCCCGGTGAT GCTGCGAAGGCTGTGAACAGGGGAGGCGGCACTGTGGGGGCTGCCGGCAGCCGGG 5 CTGGGGAGAGACATGTGGACACGTGGCCTCTATGGCTCCCGCCTGCCAGATCCTCCGC AAGATGAGTTCCTGTCCAGTCTGGAGAGCTATGAGATCGCCTTCCCCACCCGCGTGGAC CACAACGGGGCACTGCTGGCCTTCTCGCCACCTCCCCGGAGGCAGCGCCGCGGC ACGGGGCCACAGCCGAGTCCCGCCTCTTCTACAAAGTGGCCTCGCCCAGCACCCACT 10 TCCTGCTGAACCTGACCCGCAGCTCCCGTCTACTGGCAGGGCACGTCTCCGTGGAGTA CTGGACACGGGAGGGCCTGGCCTGGCAGAGGGCGGCCCGGCCCCACTGCCTCTACGC TGGTCACCTGCAGGGCCAGGCCAGCACCTCCCATGTGGCCATCAGCACCTGTGGAGGC CTGCACGGCCTGATCGTGGCAGACGAGGAAGAGTACCTGATTGAGCCCCTGCACGGTG GGCCCAAGGGTTCTCGGAGCCCGGAGGAAAGTGGACCACATGTGGTGTACAAGCGTTC 15 CTCTCTGCGTCACCCCCACCTGGACACAGCCTGTGGAGTGAGAGATGAGAAACCGTGG AAAGGGCGGCCATGGTGGCTGCGGACCTTGAAGCCACCGCCTGCCAGGCCCCTGGGG AATGAAACAGAGCGTGGCCAGCCAGGCCTGAAGCGATCGGTCAGCCGAGAGCGCTACG TGGAGACCCTGGTGGTGGCTGACAAGATGATGGTGGCCTATCACGGGCGCCGGGATGT GGAGCAGTATGTCCTGGCCATCATGAACATTGTTGCCAAACTTTTCCAGGACTCGAGTCT 20 GGGAAGCACCGTTAACATCCTCGTAACTCGCCTCATCCTGCTCACGGAGGACCAGCCCA CTCTGGAGATCACCCACCATGCCGGGAAGTCCCTGGACAGCTTCTGTAAGTGGCAGAAA TCCATCGTGAACCACAGCGGCCATGGCAATGCCATTCCAGAGAACGGTGTGGCTAACCA TGACACAGCAGTGCTCATCACACGCTATGACATCTGCATCTACAAGAACAAACCCTGCG GCACACTAGGCCTGGCCCCGGTGGGCGGAATGTGTGAGCGCGAGAGAAGCTGCAGCG 25 TCAATGAGGACATTGGCCTGGCCACAGCGTTCACCATTGCCCACGAGATCGGGCACACA TTCGGCATGAACCATGACGGCGTGGGAAACAGCTGTGGGGCCCGTGGTCAGGACCCAG CCAAGCTC ATGGCTGCCCACATTACCATGAAGACCAACCCATTCGTGTGGTCATCCTGC AGCCG FGACTACATCACCAGCTTTCTAGACTCGGGCCTGGGGCTCTGCCTGAACAACCG GCCCCCCAGACAGGACTTTGTGTACCCGACAGTGGCACCGGGCCAAGCCTACGATGCA 30 GATGAGCAATGCCGCTTTCAGCATGGAGTCAAATCGCGTCAGTGTAAATACGGGGAGGT CTGCAGCGAGCTGTGTGTCTGAGCAAGAGCAACCGGTGCATCACCAACAGCATCCCG GCCGCCGAGGGCACGCTGTGCCAGACGCACACCATCGACAAGGGGTGGTGCTACAAAC GGGTCTGTGTCCCCTTTGGGTCGCGCCCAGAGGGTGTGGACGGAGCCTGGGGGCCGT GGACTCCATGGGGCGACTGCAGCCGGACCTGTGGCGGCGGCGTGTCCTCTTCTAGCC 35

GTGCAGTGTTCTGAATTTGACAGCATCCCTTTCCGTGGGAAATTCTACAAGTGGAAAACG TACCGGGGAGGGGCGTGAAGGCCTGCTCGCTCACGTGCCTAGCGGAAGGCTTCAACT TCTACACGGAGAGGGCGCAGCCGTGGTGGACGGGACACCCTGCCGTCCAGACACGG TGGACATTTGCGTCAGTGGCGAATGCAAGCACGTGGGCTGCGACCGAGTCCTGGGCTC CGACCTGCGGGAGGACAAGTGCCGAGTGTGTGGCGGTGACGGCAGTGCCTGCGAGAC CATCGAGGGCGTCTTCAGCCCAGCCTCACCTGGGGCCGGGTACGAGGATGTCGTCTGG GCCCTGAAGGGAGACCAGGAGTCCCTGCTGCTGGAGGGGCTGCCCGGGACCCCCCAG CCCACCGTCTGCCTCTAGCTGGGACCACCTTTCAACTGCGACAGGGGCCAGACCAGG TCCAGAGCCTCGAAGCCCTGGGACCGATTAATGCATCTCTCATCGTCATGGTGCTGGCC CGGACCGAGCTGCCTCCGCTACCGCTTCAATGCCCCCATCGCCCGTGACTCGC TGCCCCCTACTCCTGGCACTATGCGCCCTGGACCAAGTGCTCGGCCCAGTGTGCAGG CGGTAGCCAGGTGCAGGCGGTGGAGTGCCGCAACCAGCTGGACAGCTCCGCGGTCGC CCCCACTACTCCAGTGCCCACAGCAAGCTGCCCAAAAGGCAGCGCGCCTGCAACACG GAGCCTTGCCCTCCAGACTGGGTTGTAGGGAACTGGTCGCTCTGCAGCCGCAGCTGCG ATGCAGGCGTGCGCAGCCGCTCGGTCGTGTGCCAGCGCCGCGTCTCTGCCGCGGAGG AGAAGGCGCTGGACGACAGCGCATGCCCGCAGCCGCGCCCACCTGTACTGGAGGCCT GCCACGGCCCCACTTGCCCTCCGGAGTGGGCGGCCCTCGACTGGTCTGAGTGCACCC CCAGCTGCGGGCCGGGCCTCCGCCACCGCGTGGTCCTTTGCAAGAGCGCAGACCACC GCGCCACGCTGCCCCGGCGCACTGCTCACCCGCCGCCAAGCCACCGGCCACCATGC 20 GCTCTGCACAGTGCGGCGTCGGGCAGCGCAGCGCTCGGTGCGCTGCACCAGCCACA AGTGTGAGGCCAAGTGCGACAGCCCAACCCCGGGGACGGCCCTGAAGAGTGCAAGG ATGTGAACAAGGTCGCCTACTGCCCCCTGGTGCTCAAATTTCAGTTCTGCAGCCGAGCC 25 GGCCCGGGGGGGGGGGAACTGGGAGGGAAGGGTGAGACGGAGCCGGAAGTTATTT ATTGGGAACCCCTGCAGGGCCCTGGCTGGGAGGATCCACCCCAACCTCTGCCCTGCCC GCCCCAGGGGCACCCCGACATCCAGGCCACCCCTCATGGTGCTACAGACCCTGCCCT 30 GGGGCCCACACACTCCTGCCAGGAAGCCCTACATCAATAAAGTTCTGTCTTGTGTAGAT TTCTAAAAAAAAAAAAAAA

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FIG 2

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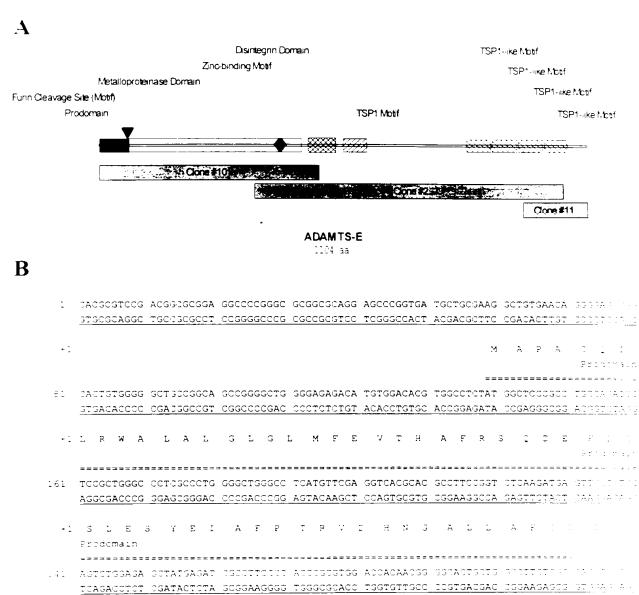
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ADAMTS-E amino acid sequence [SEQ ID NO: 2]

MAPACQILRWALALGLGLMFEVTHAFRSQDEFLSSLESYEIAFPTRVDHNGALLAFS PPPPRRORRGTGATAESRLEYKVASPSTHFLLNLTRSSRLLAGHVSVEYWTREGLA WQRAARPHCLYAGHLQGQASTSHVAISTCGGLHGLIVADEEEYLIEPLHGGPKGSR SPEESGPHVVYKRSSLRHPHLDTACGVRDEKPWKGRPWWLRTLKPPPARPLGNE TERGQPGLKRSVSRERYVETLVVADKMMVAYHGRRDVEQYVLAIMNIVAKLFQDSS LGSTVNILVTRLILLTEDQPTLEITHHAGKSLDSFCKWQKSIVNHSGHGNAIPENGVA NHDTAVLITRYDICIYKNKPCGTLGLAPVGGMCERERSCSVNEDIGLATAFTIAHEIG HTFGMNHDGVGNSCGARGQDPAKLMAAHITMKTNPFVWSSCSRDYITSFLDSGLG LCLNNRPPRQDFVYPTVAPGQAYDADEQCRFQHGVKSRQCKYGEVCSELWCLSK SNRCITNSIPAAEGTLCQTHTIDKGWCYKRVCVPFGSRPEGVDGAWGPWTPWGDC SRTCGGGVSSSSRHCDSPRPTIGGKYCLGERRRHRSCNTDDCPPGSQDFREVQC SEFDSIPFROKFYKWKTYRGGGVKACSLTCLAEGFNFYTERAAAVVDGTPCRPDTV DICVSGECKHVGCDRVLGSDLREDKCRVCGGDGSACETIEGVFSPASPGAGYEDV VWIPKGSVHIFIQDLNLSLSHLALKGDQESLLLEGLPGTPQPHRLPLAGTTFQLRQGP DQVQSLEALGPINASLIVMVLARTELPALRYRFNAPIARDSLPPYSWHYAPWTKCSA QCAGGSQVQAVECRNQLDSSAVAPHYCSAHSKLPKRQRACNTEPCPPDWVVGN WSLCSRSCDAGVRSRSVVCQRRVSAAEEKALDDSACPQPRPPVLEACHGPTCPPE WAALDWSECTPSCGPGLRHRVVLCKSADHRATLPPAHCSPAAKPPATMRCNLRRC PPARWVAGEWGECSAQCGVGQRQRSVRCTSHTGQASHECTEALRPPTTTQQCE AKCDSPTPGDGPEECKDVNKVAYCPLVLKFQFCSRAYFRQMCCKTCQGH

Figure 3. Domain structure of ADAMTS-E and translated nucleic acid sequence. A) Diagram at ADAMTS-E showing the following domains and signature motifs (with amino acid numbers in parentheses): prodomain (1-66), furin cleavage site (63-66), metalloproteinase domain (67-453), zinc-binding motif (392-420), disintegrin domain (469-531), TSP1 motif (548-601), and four TSP1-like motifs (829-884, 888-944, 948-1002, and 1007-1058). Overlapping clones covering the indicated sequence segments are depicted at the bottom of the diagram. B) ADAMTS-E nucleotide sequence with translated amino acid sequence above.



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Metalloproteinase Domain Alignment of ADAMTS-E v. ADAMTS Family

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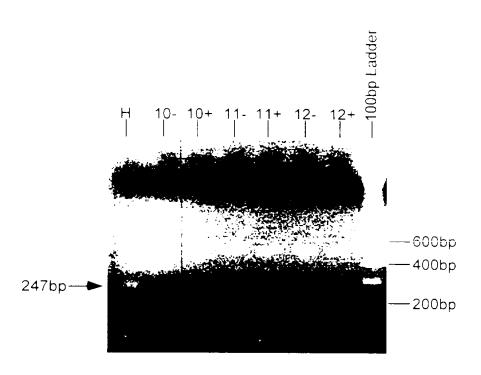


Figure 5. Expression of ADAMTS-E in cDNA from osteoarthritic cartilage.

Figure 6. Amino acid alignment of human ADAMTS-E with a GenScan prediction of ADAMTS-E from mouse genomic sequence.

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: ATAMTO-E	: "	GNSCGAFGQDPAKLMAAHITMFTNPFVWSSCSRDYITSFLDSGLGLCLNNRPPRQDFVYPTVAFGQAYDALEQCFFTHSV
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r All AMTU - E	541	GVSSSSPHCDSPRPTIGGKYCLGEPRRHRSCNTNDCPPGSQDFREMQCSEFDSVPFRGKFYTWKTYRGGGVKACSLTCLA
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